

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A light source unit comprising:

a light source comprising a plurality of light source elements for emitting different wavelengths of light;

a temperature controller for keeping the light source at constant temperature;

a light mixer for mixing light emitted by the plurality of light source elements;

a light detector for detecting light from the light mixer capable of detecting a plurality of different wavelengths of light; and

a light source controller for controlling luminance of each of the plurality of light source elements based on values detected by the light detector.

Claim 2 (Original): A light source unit according to claim 1, wherein the light detector detects a plurality of different wavelength ranges, and the light source controller controls luminance of each of the plurality of light source elements so that each detected value in the plurality of wavelength ranges approaches each given value.

Claim 3 (Original): A light source unit according to claim 1, further comprising a temperature detector for detecting temperature of the light source, wherein the temperature controller operates so that a value detected by the temperature detector approaches a given value.

Claim 4 (Original): A light source unit according to claim 1, wherein the temperature controller operates to keep the light source constant at constant temperature, and the light

source controller controls luminance of each of the plurality of light source elements so that the light source unit has substantially constant chromaticity.

Claim 5 (Original): A light source unit according to claim 1, further comprising a temperature detector for detecting temperature of the light source, wherein the temperature controller changes a temperature value to be maintained in the light source based on a temperature value detected by the temperature detector, and the light source controller controls each of the plurality of light source elements to have luminance corresponding to the temperature value to be maintained.

Claim 6 (Original): A light source unit according to claim 1, wherein the light source comprises a plurality of light source elements emitting light with wavelengths corresponding to each of N (N is a natural number) number of colors, the light detector comprises N number of optical sensors corresponding to each of N number of colors, and the light source controller controls each of the plurality of light source elements so that each value detected by the N number of optical sensors approaches each given value.

Claims 7-10 (Cancelled).

Claim 11 (Original): A display device comprising:
a light source unit; and
a display panel for displaying images by controlling light emitted by the light source unit;
the light source unit comprising:

a light source comprising a plurality of light source elements for emitting different wavelengths of light;

a temperature controller for keeping the light source at constant temperature;

a light mixer for mixing light emitted by the plurality of light source elements;

a light detector for detecting light from the light mixer capable of detecting a plurality of different wavelengths of light; and

a light source controller for controlling luminance of each of the plurality of light source elements based on values detected by the light detector.

Claim 12 (Cancelled).

Claim 13 (New): A light source unit comprising:

a light source comprising a plurality of light source elements for emitting different wavelengths of light;

temperature control means for keeping the light source at constant temperature;

a light mixer for mixing light emitted by the plurality of light source elements;

a light detector for detecting light from the light mixer capable of detecting a plurality of different wavelengths of light; and

a light source controller for controlling luminance of each of the plurality of light source elements based on values detected by the light detector.

Claim 14 (New): A display device comprising:

a light source unit; and

a display panel for displaying images by controlling light emitted by the light source unit;

the light source unit comprising:

a light source comprising a plurality of light source elements for emitting different wavelengths of light;

temperature control means for keeping the light source at constant temperature;

a light mixer for mixing light emitted by the plurality of light source elements;

a light detector for detecting light from the light mixer capable of detecting a plurality of different wavelengths of light; and

a light source controller for controlling luminance of each of the plurality of light source elements based on values detected by the light detector.